

70833

Original Instructions
Version 2
October 2025

BODY SAW





1. Preface

These are the original product instructions. Read the instruction manual in full and retain for future reference.

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

1.1 Product Reference

User Manual for: Air Body Saw

Stock No: 70833

Part No: DAT-ABSSG

1.2 Revisions

Version 1: July 2019

First release

Version 2: October 2025

As our manuals are continually updated, always ensure that the latest version is used.

1.3 Understanding the Safety Content of This Manual



WARNING! - Situations or actions that may result in personal injury or death.



CAUTION! – Situations or actions that may result in damage to the product or surroundings.

Important: - Information or instructions of particular importance.

1.4 Copyright © Notice

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3. Product Introduction

3.1 Intended Use

This body saw is designed for straight and scroll cutting of mild steel up to 1.2mm thickness. Intended for use with a suitable compressed air supply and ideal for auto body shop and exhaust applications.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.:	70833		
Part No.:	GDAT-ABSSG		
Number of strokes:	10,000s/min		
Maximum cutting thickness:	1.2mm mild steel		
Max. air pressure operation:	90psi (6.2bar)		
Average air consumption:	71L/min (2.5cfm)		
Minimum air line (inner diameter):	10mm (3/8")		
Air inlet connector:	1/4" BSP		
Noise emissions:			
Sound pressure level:	92dB (A)		
Sound power level:	103dB (A)		
Uncertainty:	3dB (A)		
Vibration level:	15m/s ²		
Net weight (air tool only):	640g		

Important: The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



WARNING! The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the area upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.

4. Health and Safety Information



Important: Read all the Health and Safety instructions before attempting to operate, change accessories, maintain or repair or when working near this saw. Failure to follow these instructions may result in injury or damage to the user, the product or the workpiece.

4.1 General Health and Safety **Precautions**

- Only qualified and trained operators should use or adjust the air body saw.
- DO NOT modify this body saw. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
- · Retain the safety instructions for future reference and use by the operator.
- NEVER misuse the tool and DO NOT use the tool if it. has been damaged.
- Inspect the tool periodically to verify that the ratings and markings required are attached and legible.
- · Keep bystanders away during operation.
- **ALWAYS** Wear appropriate personal protective equipment (PPE) including eye, ear and hand protection.
- Have your tool serviced by a qualified repair person using only identical replacement parts.

4.2 Additional Safety Instructions for **Compressed Air**



WARNING! Compressed air can cause severe injury.

- **ALWAYS** turn off and disconnect the air supply before making any adjustments to the product or leaving it unattended.
- **NEVER** direct this product towards yourself or
- Ensure that compressed air is not blocked by or in contact with any part of your body.
- **ONLY** use clean, dry and regulated compressed air.



WARNING! NEVER use oxygen, combustible gases or other bottled gases as a supply for this product. Use of these substances may cause the product to explode.

Draper Tools recommends the use of a whip hose between the tool and the air supply to reduce vibration.



WARNING! Whipping hoses can cause severe injury. Always check for and replace damaged or loose hoses and fittings.

- Ensure that the product is compatible with the air supply before use.
- Ensure all connections are securely tightened.
- Where universal twist couplings (claw couplings) are used, lock pins must be installed and whip check safety cables must be used to safeguard against possible hose-to-tool or hose-to-hose failure.
- **DO NOT** exceed the maximum stated air pressure.
- **DO NOT** obstruct the ability of the trigger to release once depressed.
- **NEVER** carry the tool by the air line.

4.3 Additional Safety Instructions for Air **Body Saws**

- Disconnect the tool from the energy supply before changing the inserted tool or accessory.
- Failure of the workpiece, accessories or even of the inserted too itself can generate high-velocity projectiles.
- **ALWAYS** wear impact-resistant eve protection during the operation of the saw. The grade of protection required should be assessed for each use. Suitable gloves and protective clothing are recommended.
- Wear suitable gloves to protect hands against cuts. abrasion and heat.
- Minimise disturbance of dust in the work area and control at point of emission where possible.
- Ensure that the workpiece is securely fixed.
- Ensure that the saw blade is properly clamped.
- Ensure that sparks and metal cuttings are directed so as not to cause a hazard.
- Avoid direct contact with the inserted saw blade during and after use as it can be hot or sharp.
- Keep loose clothing, jewellery, neck wear, hair or gloves away from the saw and accessories.
- Avoid contact with the saw blade to prevent the cutting of hands or other body parts.
- The guard must be securely fitted and in good functional condition.
- Replace the quard if damaged, bent or severely worn with a replacement recommended by Draper Tools.

4. Health and Safety Information

- Adopt a suitable posture to counteract normal or unexpected movement due to reaction forces from the tool. Maintain a balanced body position and secure footing.
- Release the start and stop device in the case of an interruption of the energy supply.
- Be aware that there is a running-on of the inserted tool after the start and stop device has been released.
- Only use lubricants recommended by the manufacturer.
- When using a saw to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body. While using the saw, the operator should adopt a comfortable posture while maintaining a secure footing and avoiding awkward off-balanced postures.
- The operator should change posture during extended tasks, which can help avoid discomfort and fatigue.
- If the operator experiences symptoms, such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell the employer and consult a qualified health professional.
- Use only sizes and types of accessories and consumables that are recommended by the tool manufacturer.
- Inspect the saw blade before use. **DO NOT** use saw blades which may have been dropped or which are chipped, cracked or otherwise defective.
- The tool is not intended for use in potentially explosive atmospheres and is not insulated against coming into contact with electric power. Ensure there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.

Noise Hazards

- Exposure to high noise levels can cause permanent hearing loss and other problems.
 Perform a risk assessment and implement any appropriate controls for identified hazards before performing any operation.
- Use appropriate hearing protection in accordance with local occupational health and safety regulations.
- Operate and maintain the tool appropriately to prevent unnecessary increase in noise emissions.

Vibration Hazards

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the tool and consult a qualified health professional.
- Operate and maintain the tool appropriately to prevent unnecessary increase in vibration emissions.
- The risks from vibration hazards are increased when grip force on the tool is higher. – Hold the tool with a light but safe grip, keeping in mind that your grip may need to be altered to react to unexpected forces.

4.4 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

5. Identification and Unpacking



5.1 Product Overview

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

If any part is damaged or missing, **DO NOT** attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



- 1 Soft grip
- Work guard adjustment screws
- 3 2 × Work guard (1 fitted, 1 spare)

- 4 Chuck cover release screw
- 5 Chuck cover
- 6 Trigger
- 7 1/4" BSP air inlet
- 8 Valve speed adjustment screw
- 9 18T Saw blade
- [10] 24T Saw blade
- 11 2 × Hex keys

5. Identification and Unpacking

5.2 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need to be returned for repair.

WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

Please visit drapertools.com for our full range of accessories and consumables.

6. Assembly Instructions

Important: Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.

Important: Always disconnect from the air supply before assembling, carrying out adjustments, servicing or maintenance.

6.1 Preparing the Air Supply for Use (Fig.1)

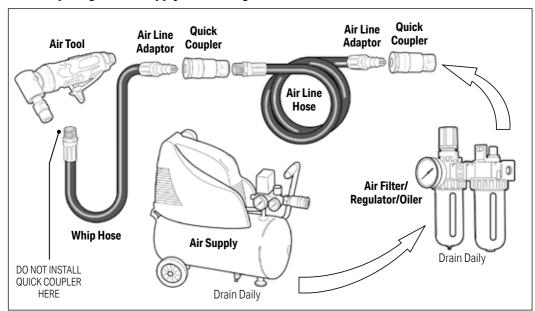


Fig. 1

- This air tool operates at a max. pressure of 6.2bar (90psi).
- The compressed air system must be controlled by a combination pressure regulator, in-line lubricator and moisture filter. This will ensure a constant supply of dry air at all times, provided it is properly maintained.
- Important: Always check the machine operating pressure before use.
- Water in the compressor tank may cause considerable corrosion to air tools; the compressor should be drained daily to avoid excessive water in the air supply. Dirty or wet air can significantly shorten the lifespan of the product.

6. Assembly Instructions



 When using an air tool with a hose over 25ft long, Draper Tools recommends increasing the bore of the hose to the next largest available size (i.e. increase 3/8" to 1/2"). This will ensure adequate pressure and volume of air to power the tool.

6.2 Connecting to the Air Supply (Fig. 2 – Fig. 3)

Important: It is recommended to use a 1/4" BSP male-threaded thread whip hose (not supplied) to connect the tool to the air line in order to reduce vibration.

1. Wrap a length of PTFE tape B around the air line coupling A or the whip hose thread.

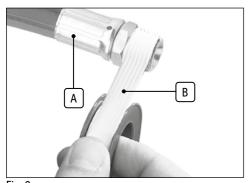


Fig. 2

 Remove the bung from the inlet connector 7 and attach the air line coupling or whip hose to the air inlet. Check that the connection is secure and airtight.

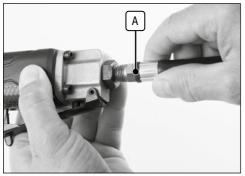


Fig. 3

6.3 Fitting or Replacing the Saw Blade (Fig.4)

- 1. Disconnect the saw from the air supply before changing the blade.
- Open the chuck cover 5 by using a cross slot screwdriver (not supplied) to loosen the chuck cover release screw 4.
- 3. Use the larger hex key supplied to loosen the clamp pins 5.1 on both sides.
- 4. Insert a saw blade.
- 5. Tighten the two clamp pins to secure the blade in place.
- 6. Replace the chuck cover and tighten the screw to secure.

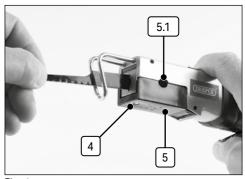


Fig. 4

6. Assembly Instructions

6.4 Adjusting the Work Guard (Fig.5)

- Disconnect the saw from the air supply before adjusting the guard.
- The work guard 3 functions as a guide for the cutting depth. To control the depth of the cut adjust the height of the work guide by:
 - Loosen the two work guard adjustment screws 2
 on each side using the small hex.key supplied.
 - Pull the work guard to the required depth and retighten the screws.

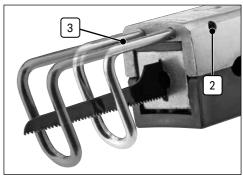


Fig. 5

7. Operating Instructions

Important: Before operating this product, read and understand all the safety instructions listed in this manual. Ensure that the product is fully assembled and correctly prepared for use.

7.1 Trigger Operation (Fig.6 - Fig.7)

1. Push the safety switch forward first, then press the trigger 6 to operate the saw.

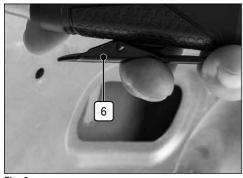


Fig. 6

 For best cutting results use light pressure and move the saw slowly and steadily.

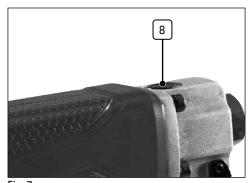


Fig. 7

- The tool speed can be adjusted by rotating the valve speed adjustment screw 8 using a flat head screwdriver (not supplied).
 - DO NOT start the saw with the stationary blade in contact with the workpiece. Start the saw first and then move the blade onto the workpiece.
 - Allow the blade to stop before removing from the workpiece.

8. Maintenance and Troubleshooting



A

WARNING!

- Disconnect from the air supply before carrying out any adjustments, servicing or maintenance.
- Replace the bung in the end of the air line inlet [7]
 when the tool is disconnected from the air supply and
 before storing.

8.1 Every Day Maintenance

Before connection to the air supply:

- Drain the compressor reservoir of condensate.
- Drain the air lines of condensate.

- Drain the combined separator filter, regulator, water trap.
- Fill up the combined separator filter, regulator, lubricant reservoir.
- · Check the line pressure is correct for the tool.

8.2 After Use Maintenance Checks

- Repeat the every day procedure.
- Lubricate the tool with approximately 1.5ml of oil directly down the air inlet.
- When not in use store in a dry clean place out of the reach of children.

8.3 Troubleshooting

Problem	Possible cause	Remedy
Tool runs slow or will not operate	Grit or dirt in tool	Flush the tool with air too oil
	No oil in tool	Lubricate the tool with approximately 1.5ml of oil directly down the air inlet
	Low air pressure	Adjust the air regulator to the correct pressure
	Air hose leakage	Check and tighten the hose seal fittings. Use sealing tape if required
Abnormal vibrations or excessive heat	Incorrect lubrication	Lubricate the tool with approximately 1.5ml of oil directly down the air inlet

9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

 DO NOT dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.



10. Warranty

6 months from date of purchase – Visit **drapertools.com/warranty** for more information. However, if the tools are hired out, the warranty period is 90 days from the date of purchase.

11. Explanation of Symbols





Read the instruction manual



Wear mask and safety glasses



Wear gloves



Warning!



Strokes per minute



Operating air pressure (Pounds per Square Inch)



Operating air pressure (bar)



Air flow rate by volume per minute



Air flow rate by cubic feet per minute



Mild Steel cutting capacity



Internal diameter



British Standard Pipe thread external diameter size



WEEE-

Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



European conformity



UK Conformity Assessed

Notes			

Contact Details

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.